

Investigation of the change in ...

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S/181/61/003/005/028/042
B108/B209

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im A. A. Zhdanova
(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: November 26, 1960

Card 3/5

KONOROV, P.P.; KOLBIN, M.N.

Investigating variations in the length of the diffusion displacement of current carriers and in the electrode potential of germanium during electrolytic treatment. Fis.tver.tela 3 no.5:1553-1556 My '61.

(MIRA 14:6)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Germanium—Electric properties) (Crystal lattice)

KOLBIN, N-I.

18

The stabilization of highly concentrated solutions of hydrogen peroxide. S. N. Lur'e and N. I. Kolbin. *Chem. Ind. (U. S. S. R.)* 16, 757 (1957); cf. C. A. 50, 5011. Even paraffining the container walls does not entirely prevent decomposition of very strong H_2O_2 solns. Surface-active materials stabilize such solns. The best are phenacetin and salicylic acid, which are effective in concns. of 0.1-0.5 g./l. with pure H_2O_2 solns. If impurities are present, up to 2 g./l. of stabilizer may be needed. Tannin and α -naphthylamine can also be used. Saponin and acetanilide are effective for a short time, but after long standing, solns. contg. them begin to decomp. H. M. Leicester

ASA 15.8 METALLURGICAL LITERATURE CLASSIFICATION

AUTHORS: Shchukarev, S. A., Kolbin, M. I., SOV/78-3-8-1/48
 Ryabov, A. N.

TITLE: On the Dissociation- and Sublimation Tension of
 Ruthenium-(III)-Chloride (Ob uprugosti dissotsiatsii i
 sublimatsii trikhlorida ruteniya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 8,
 pp. 1721-1726 (USSR)

ABSTRACT: RuCl_3 is produced by chlorination of finely powdered metallic
 ruthenium with chlorine. For the determination of the dis-
 sociation- and sublimation tension of RuCl_3 three methods have
 been used.
 1) Static method with buffer - concentrated sulfuric acid.
 2) Method of the quartz membrane.
 3) Dynamically with nitrogen as carrier gas.
 The dissociation tension of solid ruthenium-(III)-chloride at
 temperatures of 773-1058°K was calculated. From these data
 the variation of the thermodynamic functions with the dis-
 sociation of ruthenium-(III)-chloride was found:
 $\Delta H_{298} = 49 \pm 2 \text{ kcal}$, $\Delta F_{298} = 35 \pm 2 \text{ kcal}$, $\Delta S_{298} = 47 \pm 2 \text{ e.ys.}$

Card 1/2

On the Dissociation- and Sublimation Tension
of Ruthenium-(III)-Chloride

SOV/78-3-8-1/49

The sublimation of RuCl_3 was determined at 850-1100°K. On the strength of these results the thermodynamic characteristic values of the sublimation process of RuCl_3 for the temperature 975°K were calculated: $\Delta H = 46$ kcal, $\Delta S = 41$ e.ye. There are 3 figures, 5 tables, and 8 references, 4 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet, Kafedra obshchey i neorganicheskoy khimii (State University of Leningrad, Chair of General and Inorganic Chemistry)

SUBMITTED: July 8, 1957

Card 2/2

5.2200
5.4130

5(4)

AUTHORS:

Kolbin, N. I., Ryabov, A. N.

66883

80V/54-59-4-15/22

TITLE:

On the Modifications of Ruthenium Trichloride ✓

PERIODICAL:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii,
1959, Nr 4, pp 121-127 (USSR)

ABSTRACT:

The authors first discuss publications on ruthenium modifications with reference to Klaus (Ref 1) et al. RuCl_3 was obtained by some research workers in two modifications, i.e. in the form of small black, lustrous plates and cinnamon-colored powders. However, the development and the properties of these modifications have not yet been fully explained. Thus, the authors carried out the present investigation. The production of ruthenium trichloride from metallic ruthenium in dry Cl_2 current was studied in the temperature range 280-840°C. The metallic ruthenium was obtained from RuCl_3 by dechlorination with the aid of H_2 . Two methods were employed: 1) Sample in quartz shuttle and quartz tube. 2) Glass tube in the form of a pipette. The second method was more convenient. The resultant chlorides were analyzed by dechlorination with hydrogen and by determination of the

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On the Modifications of Ruthenium Trichloride SOV/54-59-4-15/22

quantity of the separated HCl. Moreover, the authors took Debye powder patterns and electron diffraction pictures. In dependence on temperature, the authors obtained either the cinnamon-colored powder (below 500°C) or the small black plates (above 500°C).

In the case of incomplete dechlorination, the RuCl_3 lines were still observed in the X-ray picture in addition to metallic Ru. This indicated the presence of a mixture of the two substances and not the formation of low-valence Ru chlorides (as e.g. Ru_2Cl_3).

In the case of a chlorination of up to $\text{Ru}:\text{Cl} = 2:5$, no metal lines were observed any longer. The authors attempted to explain this by the electron diffraction pictures (plotting and discussion by K. V. Ovchinnikov). Three modifications were observed by an investigation of RuCl_3 sublimated over the cold parts of the apparatus. These are the black plate modification (α) at formation temperatures of about 600°C, below a dark-cinnamon-colored powder modification, and above 700°C once again a cinnamon, woolly modification, which radiographically corresponded to the β -modification developing at 500°C. The dark, cinnamon modification was strongly hygroscopic, and, contrary to the other modifications, it was readily soluble in water.

Card 2/3

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On the Modifications of Ruthenium Trichloride SOV/54-59-4-15/22

The X-ray studies have shown that the third modification is probably amorphous (for data see table 1). The structure of the α -modification was determined by Ye. V. Stragonov and Ovchinnikov. Investigations of the phase transitions (Fig 3: heating curves), indicated a direct transition of the β -phase into the α -phase at 600°C. From density determinations by means of a pycnometer the authors obtained a value of 3.90 g/cm³ for the α -modification (Table 3), which is in contradistinction to reference 8 (3.11). The density of the β -modification and the amorphous modification was determined for the first time in this investigation. There are 3 tables and 12 references, 2 of which are Soviet. 4

SUBMITTED: May 25, 1959

Card 3/3

5(2)

SOV/78-4-7-41/44

AUTHORS: Shchukarev, S. A., Kolbin, N. I., Ryabov, A. N.

TITLE: On a Volatile Higher Chloride of Ruthenium (O letuchem vysshem khloride ruteniya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, 1 4, No 7, pp 1692-1693 (USSR)

ABSTRACT: The authors found in the course of the chlorination of metallic ruthenium by means of chlorine gas that amorphous RuCl_3 is deposited at the cold places of the apparatus. As the vapor pressure of RuCl_3 is negligibly low at the temperature of 400° used, this cannot concern the evaporation of RuCl_3 . The formation of RuCl_4 is assumed and its vapor pressure is calculated from the difference between the RuCl_3 carried away in the nitrogen- and in the chlorine current. The investigation is being continued. There are 1 figure and 2 references, 1 of which is Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. Zhdanova, Kafedra neorganicheskoy khimii (Leningrad State University imeni
Card 1/2

On a Volatile Higher Chloride of Ruthenium

SOV/78-4-7-41/44

Zhdanov, Chair for Inorganic Chemistry)

SUBMITTED: February 23, 1959

Card 2/2

ZOLBIN, N.I.; RYABOV, A.N.

Modifications of ruthenium trichloride, Vest. LGU 14 no.22:121-127
159.

(Ruthenium chloride)

(MIRA 12:11)

SHCHUKAROV, S.A.; KOLBIN, N.I.; RYABOV, A.N.

Ruthenium tribromide. Zhur. neorg. khim. 5 no.8:1900-1901 Ag '60.
(MIRA 13:9)

1. Leningradskiy gosudarstvennyy universitet, Kafedra neorganicheskoy khimii.

(Ruthenium bromide)

SHCHUKAREV, S.A.; KOLBIN, N.I.; RYABOV, A.N.

Ruthenium triiodide. Zhur.neorg.khim. 6 no.5:1013-1015 My
'61. (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet.

(Ruthenium iodide)

SHCHUKAREV, S.A.; KOLBIN, N.I.; SEMENOV, I.N.

Preparation of osmium tribromide. Zhur.neorg.khim. 6 no.5:1246-
1247 My '61. (MIRA 14:4)

(Osmium bromide)

SHCHUKAREV, S.A.; KOLBIN, N.I.; RYABOV, A.N.

Anhydrous ruthenium tribromide. Vest. LGU 16 no.4:100-104 '61.
(MIRA 14:3)

(Ruthenium bromide)

L 10643-63

EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP300121

S/1078/63/008/006/1543/1545

AUTHOR: Kolbin, N. I.; Ryabov, A. N.; Samoylov, V. M.

54

TITLE: Solid ruthenium tetrachloride

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 6, 1963, 1543-1545

TOPIC TAGS: RuCl sub 4, RuCl sub 3

ABSTRACT: Solid RuCl sub 4 was obtained by condensing onto a liquid air-cooled surface the vapors of Ru chlorides and chlorine obtained by heating RuCl sub 3 in fused quartz equipment in a stream of chlorine at 750 degrees. RuCl sub 4 decomposes to the trichloride and chlorine at -30 degrees; the reaction is not reversible at this temperature. Orig. art. has: 1 table; 1 figure; 1 equation.

ASSOCIATION: none

SUBMITTED: 16Aug62

DATE ACOD: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 001

deo/CL

Card 1/1

KOLBIN, N.I.; SEMENOV, I.N.; SHUTOV, Yu.M.

Forms of the compounds in the osmium - chlorine system.
Zhur. neorg. khim. 8 no.11:2422-2427 N '63. (MIRA 17:1)

KOLBIN, N.I.; SEMENOV, I.N.

Thermal dissociation of osmium tetrachloride. Zhur.neorg.khim. 9 no.1:
203-205 Ja '64. (MIRA 17:2)

1. Leningradskiy universitet, kafedra neorganicheskoy khimii.

KOLBIN, N.I.; SEMENOV, I.N.; SHUTOV, Yu.M.

Thermal dissociation of osmium trichloride. Zhur. neorg.
khim. 9 no.5:1029-1031 My '64. (MIRA 17:9)

1. Kafedra neorganicheskoy khimii Leningradskogo gosudar-
stvennogo universiteta.

ZVIAGINTSEV, Orest Yevgen'yevich, prof., doktor khim. nauk;
AVTOKRATOVA, Tat'yana Dmitriyevna, kand. khim. nauk, dots.;
GORUNOV, Anatoliy Alekseyevich, kand.khim. nauk, assistant;
KOLBIN, Nikolay Ivanovich, kand.khim.nauk, dots.;RYABOV,
Al'ber Nikolayevich, kand. khim. nauk, assistant; KORCHEMNAYA,
Ye.K., red.

[Chemistry of ruthenium] Khimiia ruteniia. [By] O.E.Zviagin-
tsev i dr. Moskva, Nauka, 1965. 299 p. (MIRA 18:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhda-
nova (for Kolbin, Ryabov, Gorvunov). 2. Moskovskiy institut
stali i splavov(for Avtokratova).

KOIBIN, O.L.

Automatic machine for weighing and packaging synthetic washing
compounds. Riul. tekhn.-ekon. inform. Gos. nauch.-issl. inst.
nauch. i tekhn. inform. 17 no.6:36-37 Je '64.

(MIRA 17:11)

KOLBIN, V.

MOROZOV, M.; SHIROKOV, A.; LIVSHITS, V.I.; prepodavatel'; KRUTIKOV, A.D.;
~~KOLBIN, V.~~

The magazine "Sovetskaya potrebitel'skaya kooperatsiya." Sov.
torg. no.10:50-54 0 '57. (MIRA 10:11)

1. Zamestitel' direktora po nauchnoy chasti Nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya (for Morozov).
2. Rukovoditel' raboty, starshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo instituta torgovli i obshchestvennogo pitaniya (for Shirokov).
3. Tekhnikum sovetskoy torgovli v Pyatigorske (for Livshits).
4. Direktor Moskovskogo magazina samoobsluzhivaniya No.65 "Gastronom" (for Krutikov).
5. Zamestitel' nachal'nika Upravleniya torgovli prodovol'stvennymi tovarami Leningrada (for Kolbin).

(Cooperative societies--Periodicals)

KOLBIN, V.

Unsolved problems of brigade liability. Sov. targ. 33 no.8:41-42
Ag '59. (MIRA 12:11)

1. Nachal'nik Upravleniya trgovli prodovol'stvennymi tovarami
Leningrada.

(Leningrad--Clerks (Retail trade))

KOLBIN, V.

Self-service groceries in Leningrad. Sov. targ. 34 no.10:29 0 '60.
(MIRA 13:10)

1. Nachal'nik Upravleniya trgovli prodovol'stvennymi tovarami.
(Leningrad—Self-service stores)
(Leningrad—Grocery trade)

KOLBINA L. I.

USSR/Mathematics - Conformal Representation 11 Jun 52
(Reflection)

"Certain Extremal Problems in Conformal Reflection,"
L. I. Kolbina

"Dok Ak Nauk SSSR" Vol LXXXIV, No 5, pp 865-868

The author investigates a number of extremal problems by the method of variations, employing G. M. Goluzin's theorem to obtain variational functions that depend upon a small complex parameter h (cf. G. M. Goluzin, "Matemat Sbor" Vol XIX, No 2, 203 1946). She establishes a theorem concerning the max of $J = |f_1'(0)| \cdot |f_2'(0)|$ for all possible systems of functions $f_k(z)$ (such that $f_k(0) = A_k$, const). Submitted by Acad V. I. Smirnov
14 Apr 52 223760

KOLBINA, L. I.

USSR/Mathematics - Schlicht (Simple)
Functions

21 Jun 52

"Theory of Schlicht (Simple) Functions," L. I.
Kolbina

"Dok Ak Nauk SSSR" Vol LXXXIV, No 6, pp 1127-1130

Demonstrates by the use of the method of parametric representation certain very general evaluations for schlicht (simple) functions. Considers the following schlicht functions class S of functions $f(z) = z + cz^2 + \dots$ (regular and simple in unit circle around the origin) and class Σ of functions $F(z) = z + a + b/z + \dots$ (regular and simple outside the unit circle). Submitted by Acad V. I. Smirnov
18 Apr 52. 223T80

KOLBINA, L. I.

USSR/ Mathematics - Mapping

Card 1/1 Pub. 127 - 3/12

Authors : Kolbina, L. I.

Title : Conformal mapping of a singular circle upon the regions overlapping each other

Periodical : Vest. Len. un. ser. mat. fiz. khim., ¹⁰5, 37-43, May 1955

Abstract : The conformal mapping of a singular circle, $|z| < 1$, on the regions overlapping each other is discussed. The maximum of the I_0 of the product $I = \prod_{k=1}^n |f'_k(0)|^{a_k}$ is sought, where $a_k > 0; f_k(0) = a_k$ and $k = 1, 2, \dots, n$; the $f_k(z)$ are regular functions in the $|z| < 1$ and monophyllously mapping the circle $|z| < 1$ upon regions B_k overlapping each other. Two references (1952).

Institution :

Submitted : January 13, 1955

KOLBINA, L.I.

KOLBINA, L.I.

Theorems for distortions in certain classes of P-sheeted functions.
Vest.Len.un. 11 no.7:71-76 '56. (MLBA 9:8)
(Functions of complex variables)

ALEKSANDROV, A.D.; AKILOV, G.P.; ASHNEVITS, I.Ya.; VALLANDER, S.V.;
VLADIMIROV, D.A.; VULIKH, B.Z.; GABURIN, M.K.; KANTOROVICH, L.V.;
KOLBINA, L.I.; LOZINSKIY, S.M.; LADYZHENSKAYA, O.A.; LINNIK, Yu.V.;
LEBEDEV, N.A.; MIKHILIN, S.G.; MAKAROV, B.M.; MATANSON, I.P.;
NIKITIN, A.A.; POLYAKHOV, N.N.; PINSKER, A.G.; SMIRNOV, V.I.;
SAPRONOVA, G.P.; SMOLITSKIY, Kh.L.; FADDEYEV, D.K.

Grigori Mikhailovich Fikhtengol'ts; obituary. Vest. LGU 14 no.19:
158-159 '59. (MIRA 12:9)
(Fikhtengol'ts, Grigori Mikhailovich, 1888-1959)

MASAGUTOV, R.M.; BERG, G.A.; KOLBINA, L.I.; KHARITSKAYA, R.Z.

Economic effectiveness of certain variates of the preparation of
raw stocks for catalytic cracking. Trudy Bash NIINP no.5:94-98
'62. (MIRA 17:10)

KOSTRIN, K.V.; KOLBINA, L.I.; TOSKINA, Z.N.

Economic significance of the use of chemicals in petroleum
refining and the classification of these chemicals. Trudy
BashNII NP no.6:283-293 '63. (MIRA 17:5)

SLEZKOVA, V.A., YANOVICH, F.P., KOLBINA, M.S.

School sanatorium for nervous children in Frunze District.
Zhur. nevr. i psikh. 58 no.7:996 '58 (MIRA 11:7)
(FRUNZE DISTRICT--HANDICAPPED CHILDREN)

KOLBINA, S. A.

"Effect of Bulky and Concentrated Fodder on the Productivity of Drought Resistant Cows and Their Condition at the Beginning of Lactation." Cand Agr Sci, Leningrad Veterinary Inst, Leningrad, 1954. (RZhBiol, No 4, Feb 55)

SO: Sum. No. 631, 26 Aug 55- Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

LUTUGINA, N.V.; KOLBINA, V.N.; RESHETOVA, L.I.

Rectification of a mixture of hydrochlorination products of pentaerythritol.
Zhur. prikl. khim. 38 no.7:1541-1549 J1 '65. (MIRA 18:7)

1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

KOLBINA, Ye. M.

ARIYA, S.M.; KOLBINA, Ye.M.; AFURINA, M.S.

Chemistry of compounds of variable composition. Part 7: The system
cobalt--tellurium and the enthalpy of cobalt telluride formation.
Zhur. neorg. khim. 2 no.1:23-29 Ja '57. (MLBA 10:4)
(Cobalt tellurides) (Enthalpy) (Systems (Chemistry))

KOLBINA, Ye.M. [deceased]; HARBANEL', Yu.A.; NAZAROVA, M.Y.; ARIYA, S.M.

Thermodynamics of lower cobalt sulfides. Vest. LGU 15 no.4:122-129
'60. (MIRA 13:2)

(Cobalt sulfide) (Thermodynamics)

MORACHEVSKIY, A.G.; KOLBINA, V.N.

Shift in the composition of azeotropes with temperature and pressure changes in binary systems toluene-saturated alcohols.
Zhur.fiz.khim. 35 no.8:1694-1698 Ag '61. (MIRA 14:8)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.

(Toluene) (Alcohols)

SKVCRTSOVA, G.G.; SAMOYLOVA, M.Ya.; KOLBINA, Z.M.; STEPANOVA, Z.V.

Hydrolysis of N-monosubstituted vinyl ethers of *p*-aminophenols.
Zhur. org. khim. 1 no.1:111-113 Ja '65. (MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

Kolbinger, Z.

Kolbinger, Z. Use of phenol resol as a core binder. p. 58.

Vol. 5, no. 2, Feb. 1957

SLEVARENSTVI

TECHNOLOGY

Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

KOLBINGER, Z.

"Long-term melting process in the foundry of gray cast iron." p. 61.

SLEVARENSTVI. (MINISTERSTVO TEZKEHO STROJIRENSTVI A CESKOSLOVENSKA VEDECKA
TECHNICKA SPOLECNOST PRO HUTNICTVI A SLEVARENSTVI). Praha, Czechoslovakia,
Vol. 7, no. 2, Feb. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

VETISKA, Ales; KOLBINGER, Zdenek

New testing method for verification of gray cast iron quality in castings. Slevarenstvi ll no.6:221-226 Je '63.

1. Katedra slevarenstvi, Vysoke uceni technicke, Brno; Zavody na vyrobu kulickovych lozisek, Brno - Lisen.

KOLBINSKI, K.

"Power Cables" p. 146. (Przegląd Elektrotechniczny, Vol. 29, no. 4, Apr. 1953, Warszawa)

SO: Monthly List of ^{East European} Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, ~~1953~~, Uncl.

KOLBINSKI, R.

M.A. Yunits
Scop:u

621.312.24 / 621.335.53
3728. Cable for electric tractors. R. Kolbinski.
Przegląd elektrotech., 38, No. 9, 1955, p. 24-25.
Tractor cables are subjected to tensions above
250 kg, twisting, bending in all directions, trailing
along earth, strong solar radiation and heating due to
copper losses. A cable designed for such a service
must be resilient and allow internal movement of
conductors to equalize stresses. Such a cable, due
for testing shortly, consists of a hemp-reinforced
rubber core, four conductors and a heavy rubber
sheath.
S. LUKASIEWICZ

7-6-56
Lent

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KOLBINSKI, K.

Aims, tasks, and duties of the Polish Electrical Engineers Association.

P. 401 (Przegląd Elektrotechniczny, Vol. 32, no. 10, Oct. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
1958, February

KOLBINSKI, K.;
SALAMON, L.

2d Nationwide Contest on Rationalization in the field of saving electric power.

P. 196 (WIADOMOSCI ELEKTROTECHNICZNE) (Warsaw, Poland) Vol. 17. No. 6 1957

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7. No. 5. 1958

KOLBINSKI, K.

Fortieth anniversary of the Polish Electrical Engineers Association. p. 177.
Problems to be discussed at the scientific session on the fortieth anniversary
of the Polish Electrical Engineers Association, Warsaw, June 9-14, 1959.
p. 178.

PRZEGLAD ELEKTROTECHNICZNY. (Stowarzyszenie Elektrykow Polskich) Warszawa,
Poland, Vol. 35, no. 5, May, 1959.

Monthly list of East European Accessions (ERAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

KOLPIŃSKI, Łezimierz, prof.

Problems of electric power cables. Przegl elektrotechn
40 no.11:481-488 N '64.

KOLBINSKI, Kazimierz, prof.

A history of Polish electrical engineering. Wiad elektrotechn
34 no.1:23 Ja '65.

1. Chairman, Historical Committee of the Association of Polish
Electrical Engineers, Warsaw.

KOLBINSKI, Kazimierz, prof.

History of Polish electrical science and engineering. Przegl
elektrotechn 41 no.3:83 Nr '65.

1. Chairman, Commission for History of the Association of Polish
Electrical Engineers, Warsaw.

VARTANYAN, O.A.; KOLBINSKIY, P.V.

Improving the living conditions of railroad workers. Put' 1 put.
khoz. 6 no.2:35 '62. (MIRA 15:2)

1. Zamestitel' nachal'nika Ostrogzhskoy distantii puti,
Yugo-Vostochnoy dorogi (for Vartanyan). 2. Smotritel' zdaniy
Ostrogzhskoy distantii puti, Yugo-Vostochnoy dorogi (for
Kolbinskiy).

(Railroads--Buildings and structures)

KOLBL, Darinko, inz.

The Litostroj Works and production of diesel motors. Stroj vest
9 no.1/2:41-45 Ap '63.

KOLBL, Darinko, ins.

Latest developments in the field of ship diesel engines.
Stroj vest 10 no. 1/2:48-52 Ap '64.

1. Litostroj, Ljubljana.

KOLBL, M.

Carbon dioxide, production and possibilities of its use. p. 287

SLEVARENSTVI. (Ministerstvo tezkého strojírenství a Československá vědecká
technická společnost pro hnutí a slevarenství) Praha, Czechoslovakia.
Vol. 7, no. 7, June, 1959

Monthly list of East European Accessions (EEAI) LC Vol. 8, No. 12,
Dec., 1959 Uncl.

KOLBLOVA, V.; GREGOROVA, I.; KOLBEL, F.; SONKA, J.

Changes in the excretion of dehydropiandrosterone in pregnancy.
Cas. lek. cesk. 103 no.45:1261-1262 6 N '64.

1. Porodnicko-gynekologicke oddeleni v Brandyse n Labem,
(vedouci MUDr. M. Zaloudek); Laborator pro endokrinologii
a metabolismus v Praze, (vedouci akademik J. Charvat) a
III. interni klinika fakulty vseobecneho lekarstvi Karlovy
University v Praze (prednosta akademik J. Charvat).

KOLBNEV, A.F. and BELOUSOV, N.I.

"Increasing the Quality of Castings from Non-ferrous Metals."

report presented at the Leningrad Regional Conference on Progressive Foundry Practice
Leningrad, 8-12 Dec 1959.

KOLBOVSKIY, A., inzhener.

Value of task assignments, Stroitel' no.5:24 My '57. (MIRA 10:6)
(Building)

KOLBOVSKIY, I.

A multileg compass. Politekh.obuch. no.10:82-83 0 '59.
(Drawing instruments)

Kolbovskiy, Yu. Ya.

Category: USSR/Analytical Chemistry - General Questions.

G-1

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30947

Author : Kolbovskiy Yu. Ya., Krizhanovskaya M. K.

Inst : ~~Urals Institute of Ferrous Metals~~ slope of the graph.

Title : Effect of Current Intensity on Slope of Calibration Graph.

Orig Pub: Zavod. laboratoriya, 1956, 22, No. 11, 1334-1335

Abstract: Experiments were carried out with standards of steel of 12-th series, prepared by the Urals Institute of Ferrous Metals. The spectra were excited in alternating current arc discharge with an operating gap of 2 mm, 10 seconds firing and with 15 seconds exposure. The upper electrode is carbon, the spectrograph is median, current intensity was varied over the range 4-7.5 a. Calibration graphs were plotted in the coordinates $\lg I_{an}/I_{mean}$, $\lg C$ according to analytical lines: Mn 2939.3 - Fe 2926/59, Si 2506.9 - Fe 2507.9, Cr 2677.1 - Fe 2684.75, Ni 3050.8 - Fe 3055.26 A. On increase of current from 4 to 5.5 a the slope of the graphs is decreased. Further increase of cur-

Card : 1/2

-21-

507/1700

FRANK I. BOK EXPLOITATION

24(7)

Zbor. Materialitet

Materialy I Vsesoyuznogo sovetskoye po spektroskopii, 1956.
 1. I. I. Mamonov, Spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy) (Moscow: Izdat. Khim., 1958, 568 p. (Series: Itogi nauki i tekhn. Seriya Khimicheskie nauki, vyp. 4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiyu nauk SSSR, Kazanskaya po spektroskopii.

Editorial Board: G. I. Landsberg, Akademik, (Moscow, M.); I. I. Mamonov, Doctor of Physical and Mathematical Sciences; V. A. Pavlovskiy, Doctor of Physical and Mathematical Sciences; V. G. Kozlovskiy, Candidate of Technical Sciences; A. M. Kozlovskiy, Candidate of Physical and Mathematical Sciences; L. K. Kuznetsov, (Moscow); Doctor of Physical and Mathematical Sciences; A. Ya. Ginzburg, Doctor of Physical and Mathematical Sciences; M. I. G. Ginzburg, Tech. M. I. G. Ginzburg.

Purpose: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

Contents: This volume contains 17 scientific and technical studies of chemical spectroscopy presented at the 10th All-Union Conference on Spectroscopy. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and foreign literature. The studies cover many phases of spectroscopy: spectra of the earth, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharges, optics and spectroscopy, absorption dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables and studies of spectral lines, spark spectrographic analysis, statistical study of variation in the percentage of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermometry in metallurgy, and principles and practice of spectrochemical analysis.

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Additional Sponsoring Agency: Akademiyu nauk SSSR, Kazanskaya po spektroskopii.

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Purpose: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

507/1700

KOLBOVSKIY, Yu.Ya.; KRIZHANOVSKAYA, M.K.

Spectral determination of aluminum in alloyed brands of steel
by making solutions. Fiz.sbor. no.4:402-403 '58.

(MIRA 12:5)

1. Nikopol'skiy yuzhnotrubnyy metallurgicheskiy zavod.
(Steel--Analysis) (Aluminum--Spectra)

KOLBOVSKIY, Yu.Ya.

Effect of polydispersity on the light scattering of polymer solutions. Vysokom.sped. 2 no.1:85-87 Ja '60.
(MIRA 13:5)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers) (Light--Scattering)

KOLBOVSKIY, Yu.Ya.

Effect of polydispersity on the scattering of light by polymers.
Part 2. Vysokom.sped. 2 no.6:825-827 Ja '60. (MIRA 13:6)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers--Optical properties)

KOLBOVSKIY, Yu. Ya.

Effect of polydispersity on the distribution function of the distance
between the ends of a free-rotating chain, Vysokom. soed. 2 no. 6:
828-831 Je '60. (MIRA 13:6)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers)

KOLBOVSKIY, Yu.Ya.

On the conformation of a stretched polymer chain. Vysokom.
soed. 2 no.8:1144-1147 Ag '60. (MIRA 13:9)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers)

KOLBOVSKIY, Yu. Ya.

Effect of polydispersity on the light scattering of polymer solutions. Vysokom. soed. 2 no.8:1154-1156 Ag '60.
(MIRA 13:9)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers--Optical properties)

S/190/60/002/009/021/023/XX
B004/B056

AUTHOR: Kolbovskiy, Yu. Ya.

TITLE: The Scattering of Light by Solutions of Ramified Macromolecules Having a Single Point of Ramification

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 9, pp. 1375-1377

TEXT: The author aimed at deriving an equation for the angular distribution of scattered light in solutions containing macromolecules with a single ramification. He proceeds from the equation for the indicatrix $P(\theta)$ of light scatter, which had been obtained by H. Benoit (Ref. 1):

$$P(\theta) = 2/Nu + (2/N^2u^2) \left\{ - \sum_{i=1}^q [1 - \exp(-uN_i)] + \sum_{i=2}^q \sum_{m=1}^{l-1} \exp(-u\lambda_{lm}) [1 - \exp(-uN_1)] [1 - \exp(-uN_m)] \right\} \quad (2).$$

Here, N denotes the number of chain links of the macromolecule, q - the number of ramifications, λ_{lm} - the

Card 1/2

The Scattering of Light by Solutions of Ramified Macromolecules Having a Single Point of Ramification

S/190/60/002/009/021/023/XX
B004/B056

distance between the neighboring links of the l^{th} and m^{th} branch,
 $u = \mu^2 b^2 / 6$, $\mu = (4\pi/\lambda') \sin(\theta/2)$, l - the length of the link, λ' - the wavelength of the light in the solution. For the case investigated by the author, $\lambda_{1m} = 0$. In order to determine the dependence of light scatter on the length x_1 of the branch chain, the following is written down:

$$\sum_{i=1}^q \exp(-uN x_1) = q \left[1 - uN/q + (uN)^2/q(q+1) - (uN)^3/q(q+1)(q+2) + \dots \right] \quad (12).$$

This equation may be represented as degenerate hypergeometric function:

$$F(\alpha, v, x) = 1 + \alpha x/v + \alpha(\alpha+1)x^2/v(v+1) + \alpha(\alpha+1)(\alpha+2)x^3/v(v+1)(v+2) + \dots \quad (13).$$

Herefrom one obtains: $P(\theta) = (2/uN) \left[1 - 2F(1, q+1, -uN) + F(1, q+1, -2uN) \right] + F^2(1, q+1, -uN) \quad (16)$. When $q = 1$ (16) gives the known equation for a ramified polymer chain. There are 5 references: 4 Soviet and 1 US.

ASSOCIATION: Yaroslavskiy tekhnologicheskii institut
(Yaroslavl' Technological Institute)

SUBMITTED: April 7, 1960

Card 2/2

KOLBOVSKIY, Yu.Ya.

Scattering of light by some simple models of branched chains. Vysokom.
soed. 3 no.1:10-13 Ja '61. (MIRA 14'2)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers--Optical properties)

KOLBOVSKIY, Yu.Ya.

Shape of polymer chains. Vysokom.sped. 3 no.5:758-760 My .61.
(MIRA 14:5)

1. Yaroslavskiy tekhnologicheskii institut.
(Polymers)

Kolbow Harry

KHITA, Stanislaw; KOLBOW, Harry.

Clinical observations on action of isonicotinic acid hydrazide in laryngeal tuberculosis. Otolaryng. polska 9 no.3:227-232 1955.

1. Z Panstwowego Sanatorium Przeciwegusliowego w Tuszynku,
Dyrektor: dr. S. Pisko.

(TUBERCULOSIS, LARYNGEAL, therapy,
isoniazid)

(NICOTINIC ACID ISOMERS, therapeutic use,
isoniazid in laryngeal tuberc.)

KOLBOW H

EXCERPTA MEDICA Sec.15 Vol.10/4 Chest Diseases Apr57

805. KOLBOW H. Państwowego Sanat. Przeciwgruźliczego, Tuszynek, Łódź.
*Wlewy dooskrzelowe hydrazyd kwasu izonikotynowego jako przygotowanie
do leczenia chirurgicznego gruźlicy płuc. Intrabronchial instilla-
tions of INH preparatory to surgical treatment of pul-
monary tb GRUŹLICA 1956, 24/9 (947-953) Illus. 11

Forty-eight tuberculous patients were treated with intrabronchial instillations of
isoniazid at the State Sanatorium at Tuszynek (near Łódź); the instillations were
carried out by means of the Métras sounds; it was considered as preparatory to
the intended surgical treatment. In the majority of the cases there were cavernous
lesions, localized in the apical segments of either upper or lower lobes. In cases
of recent, mechanical cavities the results were favourable. In cases of long-stand-
ing biological cavities the results were poor. The necessity of proper selection of
the cases and of the training of the proper attitude of the patient for this sort of
treatment, as well as the obligatory tests for drug sensitivity of the bacilli are
emphasized. Taking into consideration the possibility of relapse, surgical treat-
ment should not be postponed too long. Besides the healing action of isoniazid on
the bronchial lesions, the mechanical significance of the operation as to reflex
contractibility of the bronchial musculature in obtaining better bronchial drainage
is pointed out. Streptomycin should be avoided and spared for the operation cover.
The method is to be recommended, since it shortens the pre-operative treatment.

(XV. 9)

IVANOV, Ye. V.; GAODU, A.N.; OUZENKO, G.F.; Prinimali uchastiye: ALEKHIN, A.I.;
PONEDEL'NIKOV, A.V.; KOL'BUS, Yu. N.

Smelting refractory materials in the OKB-514 electric furnace
and manufacturing articles from them. Ogneupory 26 no.5:214-
220 '61. (MIRA 14:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut ognenporov.
(Electric furnaces)
(Refractory materials)

KOLBUSZ, F.

The influence of new agricultural policy on agricultural production in the regions where peasant dwarf farms are preponderant. p. 286

NOWE ROLNICTWO. (Panstwowe Wydawnictwo Rolnicze i Lesne)
Warszawa. Vol. 8, no. 8, Apr. 1959
Poland

Monthly List of East European Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

KOLBUSZ, F.; OTOLINSKI, E.

Some problems connected with the development of agriculture in Bulgaria. Postepy nauk roln 8 no.6:133-142 '61.

1. Wyssza Szkola Rolnicza, Krakow.

(Bulgaria--Agriculture)

KOLBUSZ, Fr.; MARTINA, St.

Determination of the concept of intensity in agriculture and methods of measuring it in suburbs. Postepy nauk roln 9 no.3:93-103 My-Je '62.

1. Wyzsza Szkola Rolnicza, Krakow.

Kolbutov A.D.
VERESHCHAGIN, N.K.; KOLBUTOV, A.D.

Remains of animals at the Mousterian site in the environs of Stalin-
grad and the stratigraphic position of the paleolithic layer. Trudy
Zool. inst. 22:75-89 '57. (MIRA 10:6)
(Stalingrad Province--Paleontology, Stratigraphic)

KOLBUTOV, A.D.

Composition, deposition characteristics, and formation of loess
on the Russian Plain. Geog.sber. no.10:108-121 '58.
(East European Plain--Loess) (MIRA 12:1)

KOLBUTOV, A.D.

Results of geomorphological observations on reservoir shores.
Trudy Okean.kom. 8:226-234 '61. (MIRA 14:5)

1. Leningradskiy filial Gidroyekta.
(Coast changes) (Reservoirs)

KOLEBUTOV, A.D., inzh.

Some factors indirectly determining the formation of new reservoir
shores. Trudy Gidroproyekta no.4:344-359 '60. (MIRA 15:2)
(Coast changes)
(Reservoirs)

KOKESHKO, I.G., inzh.; KOLEBUTOV, A.D.

Principal stages in the history of the development of recent
river valleys and conditions of shore formation in reservoirs.
Trudy Gidroproekta no.4:360-372 '60. (MIRA 15:2)

(Valleys)
(Reservoirs) (Coast changes)

LYUBIN, V.P.; KOLBUTOV, A.D.

Ancient site of man in the U.S.S.R. and Quaternary paleogeography.
Trudy Kom.chetv.per. no.26:74-88 '61. (MIRA 15:3)
(Transcaucasia--Antiquities) (Transcaucasia--Paleogeography)

MALEK, P.; OHRVINKA, P.; VEJNBL, J.; KOLC, J.

New concepts of etiology and of pathogenic therapy of puerperal
mastitis with special reference to pemphigus mastitis strain of
Staphylococcus; clinical studies. Cesk. gyn. 18 no.4:306-313 Aug
1953.
(CINL 25:4)

MALEK, P.; KOLC, J.; Technicka spoluprace: M. Skulova, M. Semoradova

Studies on dynamics of circulation and activities of substances
in the organism in shock conditions. I. Rules of administration
in tourniquet shock in rabbits. Cesk. fysiол. 5 no.2:191-199
23 June 56.

1. Ustav klinicke a experimentalni chirurgie, Praha.
(SHOCK, experimental,
eff. of hematotropic & lymphotropic substances (Cs))

MALEK, P.; KOLC, J.; Technical collaboration: M. Skulova, M. Senoradova

Studies on the dynamics of the circulation and action of substances in the organism in conditions of shock. I. Laws of absorption in tourniquet shock in rabbits. Physiol. bohém. 5 no.2:214-223 1956.

1. Institute of Experimental and Clinical Surgery, Prague-Krc.
(SHOCK, experimental,

hematotropic & lymphotropic substances, absorp. in
tourniquet shock in rabbits)

(BLOOD,

hematotropic substances, absorp. in tourniquet shock
in rabbits)

(LYMPH,

lymphotropic substances, absorp. in tourniquet shock
in rabbits)

KOLC, J.

MALEK, P.; KOLC, J.

Studies on dynamics of circulation and effects of substances in the organism in shock. II. Absorption in traumatic hemorrhagic and infectious shocks. Cesk. fysiол. 6 no.1:9-13 '57.

1. Technická spolupráce M. Semoradova Ústav klinické a experimentální chirurgie, Praha.

(SHOCK, experimental,

inulin & rhodanid absorp. in (Cs))

CZECHOSLOVAKIA / General Problems of Pathology, Shock.

U-4

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No 46770

Author : Malak, Prokop; Kolc, Jiri.

Inst : Not given

Title : The Toxic Reactivity of the Organism in Hypothermia Shock.
Study of the Dynamics of Matter Circulation in the Organism
During Shock.

Orig Pub : Rozhl. chirurg., 1957, 36, No. 4, 209-213.

Abstracts : In rabbits, during shock caused by gyration, an increase of sensitivity to the staphylococcus toxin, to B. perfringens, and to viper venom was established. Hypothermia decreases such heightened sensitivity of shock. Toxic resistance was increased in hypothermia of control animals. Part III, see RZh. Biol., 1958, 3008.

Card 1/1

Exptl. Surgical Clinic, Prague

KOLC, J.

MALEK, P.; KOLC, J.; ZAK, Fr.

Possibility of specific blocking of the lymphatic system; pathogenesis & experimental treatment of tetanus. Cas. lek. cesk. 96 no.43:1369-1375 25 Oct 57.

1. Ustav klinicke a experimentalni chirurgie, reditel doc. Dr B. Spacek.
11. pathologickoanatomicky ustav lebarske fakulty Karlovy university v Praze, prednosta prof. Dr. V. Jedlicka. K sedmdesatym narozeninam akademika A. Jiraska.

(TETANUS, exper.

eff. of specific blocking of lymphatic system with antitoxin (Cs))

(LYMPHATIC SYSTEM, in var. dis.

exper. blocking with antitoxin in exper. tetanus (Cs))

USSR/Pharmacology. Toxicology. Antibiotics.

V

Abs Jour: Ref. Zhur. - Biol., 22, 1953, 102951

Author : Malsk, P.; Goffman, I.; Gerol'd, M.; Kolts, Y.

Inst : ~~Antibiotics in the course of~~

Title : Antibiotics with Directed Penetration into the Lymphatic System.

Orig Pub: Antibiotiki, 1958, 3, No. 1, 45-51

Abstract: Antibiolymphins (I) are salts of antibiotics with high-molecular-weight substances. The salts of streptomycin and neomycin with polymetacrylic acid, with dextran sulfate and carboxymethylstarch were tested. I are absorbed in intramuscular introduction to a considerable degree by means of the lymphatic system. As compared with commonly used antibiotics, they create lower concentrations of antibiotics in the blood and cir-

Card 1/2

MALENK, P., KOLITS, I.

The use of lymphotropic antibiotics in clinical practice [with
summary in English]. Antibiotiki 3 no.4:34-37 JI-Ag '58
(MIRA 11:10)

1. Institut klinicheskoy i eksperimental'noy khirurgii (Praga)
(ANTIBIOTICS)

CZECHOSLOVAKIA / Human and Animal Physiology (Normal and Pathological). Lymph Circulation.

T

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60371

Author : Malek, P., Kolo, J.

Inst : Not given

Title : Physiological Bases of Experimental and Clinical Lymphography

Orig Pub : Casop. lekaru ceskych, 1957, 96, No 47, 1463-1471

Abstract : Lymphography (L) was done on dogs with the aid of crystalloidal (iodourone, urographin, etc.), colloidal (collargol, thorotrast) and oily contrast substances. In direct L (introduction of the contrast medium directly into the lymph vessel) the crystalloids were rapidly resorbed into the capillary net, the colloids slowly filled the lymphatic stream, and passed through the thoracic duct into the circulatory system. After adre-

Card 1/2

Ustav Klinicke a experimentalni chirurgie, Praha-Krc.

MALEK, P.; KOLO, J.

Problem of indirect x-ray lymphography in experimentation & in clinical practice. Cas. lek. cesk. 97 no.14:428-430 4 Apr 58.

1. Ustav klinické a experimentální chirurgie, Praha, přednáška doc. dr. B. Spacek, P. M., Praha-Krc, Budejovická 800.

(LYMPHATIC SYSTEM, radiography
indirect lymphographic method (Cs))

MALEK, P.; KOLC, J.

~~Methodological approach to pathophysiological investigation of the~~
lymphatic system. Cas. lek. cesk. 97 no.34:1069-1074 22 Aug 58.

1. Ustav klinicke a experimentalni chirurgie, Praha, predmosta doc.
Dr. B. Spacek.

(LYMPHATIC SYSTEM)

pathophysiol. research, methodol. approach (Cs))

MALEK, P.; KOLC, J.

Circulation of d-cycloserine & Czechoslovak DL-cycloserine in the organism. Cas. lek. cesk. 97 no.34:1075-1077 22 Aug 58.

1. Ustav klinické a experimentální chirurgie, Praha-Krc, přednosta doc. dr. B. Spacek,

(ANTIBIOTICS

D-cycloserine & Czech. DL-cycloserine, comparative circ. in exper. animals (Cs))

Kolc, J.

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3
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KOLC

NATURE
A WEEKLY JOURNAL OF SCIENCE

"LYMPHOTROPIC ANTIBIOTICS"

P. MALEK
J. HOFFMAN

M. HEROLD
J. KOLC

Institute for Clinical and Experimental Surgery
and
Institute for Antibiotic Research,
Prague
Nov. 24

SO: NATURE, No. 4610, Vol. 181, 8 March 58, Unclassified. Bak/mhs

MALEK, P.; KOLC, J.; REIAN, A.

Problems of lymphography of the deep lymphatic system of the pelvis & lower limbs. Cesk. rentg. 13 no.1:54-62 Feb 59.

1. Ustav klinické a experimentální chirurgie, Praha.

(LYMPHATIC SYSTEM, radiography

deep lymphatic system of pelvis & legs, technic (Cs))

(PELVIS, radiography

lymphography of deep lymphatic system, technic (Cs))

(LEG, radiography

same)

MALEK, P.; BRIAN, A.; KOLO, J.

A method for the demonstration of the deep lymphatic system in the lumbar region. Ces. rentg. 13 no.5:343-348 0 '59

1. Ustav klinické a experimentální chirurgie, Praha-Krc.
(LYMPHATIC SYSTEM radiogr.)

MALEK, P.; KOLO, J., Technicka spoluprace M. Semoradova

Experiences with the restoration of lymph flow. Rozhl. chir. 38
no. 7:441-446 July 59

1. Ustav klinike a experimentalni chirurgie, Praha.
(LYMPHATIC SYSTEM, surg.)

MALEK, P.; KOLC, J.; ZAK, P.

Principles of two-stage lymphography. Cas. lek. cesk. 98 no.8:225-231
20 Feb 59.

1. Ustav klinicke a experimentalni chirurgie, Praha. II. patologicko-
anatomicky ustav lekarske fakulty KU, Praha. P. M., Praha-Krc, Budejo-
vicka 800.

(LYMPHATIC SYSTEM, radiography,
two-stage lymphography in animals (Cs))

MALEK, P.; KOLO, J.; BRIAN, A.; SUHIN, V.

Roentgenographic investigation of surface and deep lymphatic systems of the lower extremities. Cas. lek. cesk. 98 no.8:231-235 20 Feb 59.

1. Ustav klinické a experimentální chirurgie, Praha, přednosta doc. dr. B. Spacek. Státní ústav rehabilitační, Kladruhy u Vlasimi. P. M., Praha-Kro. Budejovická 800.

(LYMPHATIC SYSTEM, radiography,
leg (Cx))

(LMO anat. & histol.
lymphatic system, x-ray (Cx))

MALEK, P.; ROKOS, J.; BURGER, M.; KOLO, J.; KRATKOVA, M.; PROCHAZKA, P.

Effect of chlortetracycline on exsymes & its practical significance.
 Cas. lek. cesk. 98 no.9:262-266 27 Feb 59.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel doc. dr.
 B. Spacek. Biologicky ustav CSAV v Praze, reditel akademik I. Malek.
 Detska interna Thomayerovy nemocnice v Praze, prednosta prim. dr. M.
 Kratkova. P. M., Praha-Krc, Budejovicka 800.

(CHLORTETRACYCLINE, eff.

on pancreatic alpha amylase & lipase, eff. of citric acid
 (Cs))

(AMYLASES

pancreatic alpha amylase, inhib. by chlortetracycline (Cs))

(LIPASES

inhib. by chlortetracycline, eff. of citric acid (Cs))

(PANCREAS, metab.

alpha amylase & lipase, inhib. eff. of chlortetracycline,
 reversal by citric acid (Cs))

(CITRATES, eff.

citric acid on inhib. of pancreatic alpha amylase & lipase
 by chlortetracycli (Cs))